Reply to Office Action of January 27, 2006

AMENDMENTS TO THE CLAIMS

1. (Presently Amended) A pattern formation apparatus, comprising:

a substrate including a concave section;

a top plate that is combined with a surface of the substrate where the

concave section is provided;

a at least one combining layer, provided between on at least one of the

substrate and the top plate, the at least one combining layer having one or more

melted portions via which the substrate and the top plate are combined with

each other, and

nozzles formed defined by at least melting-the combining layer-such that

the concave section of the substrate and the top plate are combined with each

other, the nozzles for jetting out ink such that a pattern is formed.

2. (Original) The pattern formation apparatus as set forth in claim 1,

wherein the combining layer is made mainly of metal or silicon dioxide.

3. (Original) The pattern formation apparatus as set forth in claim 1,

wherein at least one of the substrate and the top plate is made mainly of silicon,

glass, or aluminum oxide.

4. (Presently Amended) The pattern formation apparatus as set forth

in claim 1, wherein roughnessess of surfaces of the substrate and the top plate

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include surfaces to be combined with each other whose are such that a relative

roughness of the nozzles is not more than 0.1.

5. (Original) The pattern formation apparatus as set forth in claim 1,

wherein each of the nozzles has an opening section from which the ink is jetted

out, and the opening section has an area of not more than  $50\mu m^2$ .

6. - 18. (Cancelled) Without prejudice or disclaimer to the subject matter

included therein.

19. (New) The pattern formation apparatus as set forth in claim 1,

wherein the nozzles are defined by the concave section of the substrate and the

top plate, and the at least one combining layer is interposed between the top

plate and an interior of the nozzle.

20. (New) The pattern formation apparatus as set forth in claim 1,

wherein the nozzles are defined by the concave section of the substrate and the

top plate, and the at least one combining layer covers an inner surface of the

nozzles.

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21. (New) A pattern formation apparatus, comprising:

a substrate;

a top plate;

at least one combining layer including one or more concave sections, provided between the substrate and the top plate, the at least one combining layer having one or more melted potions via which the substrate and the top plate are combined with each other, and

nozzles defined by at least one or more concave sections of the substrate, the nozzles for jetting out ink such that a pattern is formed.

22. (New) A pattern formation apparatus comprising:

a substrate including a concave section;

a top plate that is combined with a surface of the substrate where the concave section is provided, the top plate having one or more melted portions via which the substrate and the top plate are combined with each other, and

nozzles defined by at least the concave section of the substrate, the nozzles for jetting out ink such that a pattern is formed.